STN- Structure Seach
10/15/07

10/519,419

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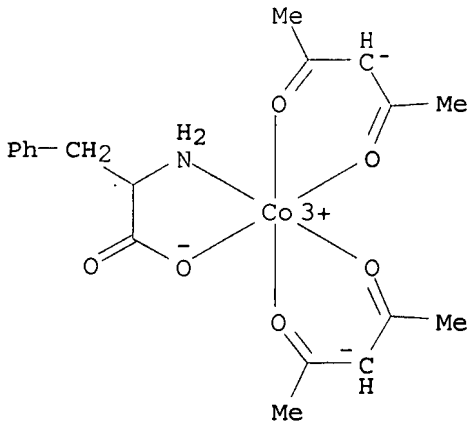
L4 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1990:131625 CAPLUS
DOCUMENT NUMBER: 112:131625
TITLE: Application of clay to optical resolution
AUTHOR(S): Yamagishi, Akihiko
CORPORATE SOURCE: Coll. Arts Sci., Univ. Tokyo, Tokyo, 153, Japan
SOURCE: Seramikkusu (1989), 24(11), 1048-53
CODEN: SERAA7; ISSN: 0009-031X
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
AB The characteristics of the structure (layered structure and geometrical regularity of the tetrahedral sheet) of the clay minerals are described and its application to optical resolution is discussed. Racemates can be resolved by column chromatog. on clay (especially smectites)-metal complex adduct (CMCA). Exptl. results show that 2,2'-binaphthol can be completely resolved on montmorillonite-Ru(o-phenanthroline)32+ stationary phase and the distance between the layers of montmorillonite is changeable by the kinds of organic compds. (alkaloid and basic dye) which are adsorbed by CMCA. Co(acac)2aa (Hacac = acetylacetone; Haa = 7 amino acids) were also resolved on the same phase.
IT 86362-26-7
RL: ANST (Analytical study); PROC (Process)
(resolution of, by liquid chromatog. on metal complex adsorbed on clay mineral)
RN 86362-26-7 CAPLUS
CN Cobalt, bis(2,4-pentanedionato-O,O')(phenylalaninato-N,O)-, (OC-6-31)-(9CI) (CA INDEX NAME)



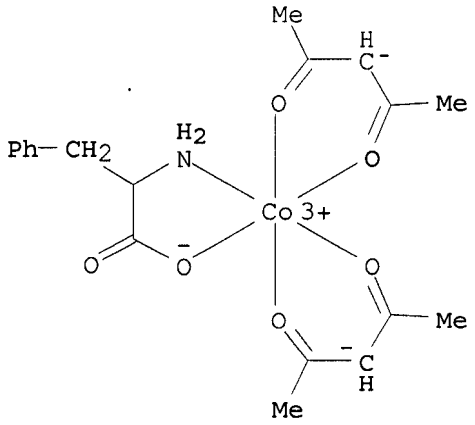
L4 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1983:443962 CAPLUS
DOCUMENT NUMBER: 99:43962
TITLE: Chirality recognition of a clay surface modified by an optically active metal chelate
AUTHOR(S): Yamagishi, Akihiko
CORPORATE SOURCE: Dep. Chem., Hokkaido Univ., Sapporo, 060, Japan
SOURCE: Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1972-1999) (1983), (4), 679-81
CODEN: JCDTBI; ISSN: 0300-9246
DOCUMENT TYPE: Journal
LANGUAGE: English
AB By using Δ-tris(1,10-phenanthroline)nickel(II) montmorillonite as a column material, the chromatog. behavior of 10 Co(III) chelates Co(acac2)L

(Hacac = acetylacetone; HL = α-amino acid) was compared. All the chelates are resolved at least partially into 2 configurational isomers. Which of the isomers is more firmly bound to the column material depends on the nature of the side chain in the amino acid. The results indicate that the modified clay surface recognizes distinctly the chirality of the adsorbate.

IT 86362-26-7
RL: PROC (Process)
(resolution of, by chromatog. on tris(phenanthroline)nickel(2+) montmorillonite)

RN 86362-26-7 CAPLUS

CN Cobalt, bis(2,4-pentanedionato-O,O')(phenylalaninato-N,O)-, (OC-6-31)-(9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:223488 CAPLUS

DOCUMENT NUMBER: 92:223488

TITLE: Study of optically active mixed-ligand chelate complexes. 6. Study of mixed-ligand chelates of cobalt(II) and cobalt(III) with acetylacetone and aromatic amino acids

AUTHOR(S): Pavlov, V. A.; Piloyan, S. R.; Klabunovskii, E. I.

CORPORATE SOURCE: Inst. Org. Khim. im. Zelinskogo, Moscow, USSR

SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1980), (3), 539-45
CODEN: IASKA6; ISSN: 0002-3353

DOCUMENT TYPE: Journal

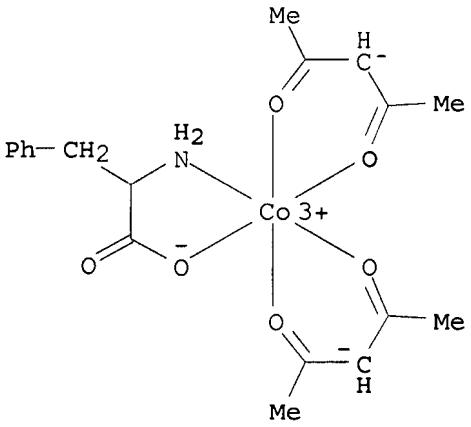
LANGUAGE: Russian

AB Dichroism of the charge-transfer bands of the acetylacetonate ligand for 330 nm in Co(acac)(A), where A is D-phenylalanine, D-tryptophan, D-tyrosine, is associated with a conformational distribution of this ligand. Correlation of the spectra of CD of these complexes with related compds. existing in the literature permits the assumption that the acetylacetonate ligand in Co(acac)2A has a δ conformation, and in Co(acac)A, a λ configuration. According to magnetooptical rotatory dispersion data, the bonds of the chelate nodes are more polar in mixed-ligand chelates with tyrosine, than with phenylalanine and tryptophan.

IT 73679-45-5
RL: PRP (Properties)
(optical properties of)

RN 73679-45-5 CAPLUS

CN Cobalt, bis(2,4-pentanedionato-O,O')(D-phenylalaninato-N,O)-, (OC-6-31)-(9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1977:432364 CAPLUS
DOCUMENT NUMBER: 87:32364
TITLE: The L-(+)546-L-phenylalaninatobis(acetylacetonato)coba lt(III)-chloroform
AUTHOR(S): Fink, R.; Revus, D.; Van der Helm, Dick
CORPORATE SOURCE: Dep. Chem., Oklahoma City Univ., Oklahoma City, OK, USA
SOURCE: Acta Crystallographica, Section B: Structural Crystallography and Crystal Chemistry (1977), B33(6), 1660-3
CODEN: ACBCAR; ISSN: 0567-7408
DOCUMENT TYPE: Journal
LANGUAGE: English

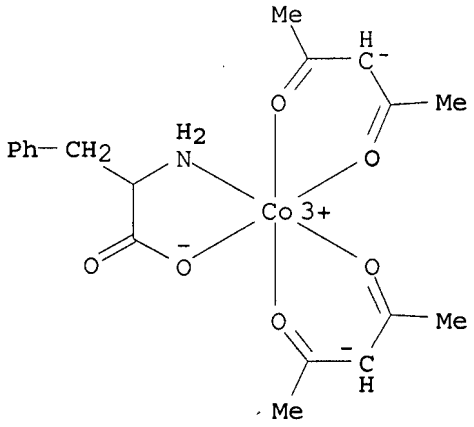
AB The structure of the title compound was determined and refined by 3-dimensional least-squares techniques. The compound has space group P31 a 12.319(1) and c 14.504(2) Å. The final weighted R for all 1793 data is 0.060. The structure is the Δ-cis isomer, in agreement with the identification made by S. Laurie (1972) from spectroscopic data. The Co ion is in a distorted octahedral environment with the amino acid and acetylacetonate ions acting as bidentate ligands.

IT 63373-99-9
RL: PRP (Properties)
(crystal structure of)

RN 63373-99-9 CAPLUS
CN Cobalt, bis(2,4-pentanedionato-O,O')(L-phenylalaninato-N,O)-, (OC-6-31-Δ)-, compd. with trichloromethane (1:1) (9CI) (CA INDEX NAME)

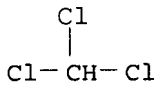
CM 1

CRN 36309-83-8
CMF C19 H24 Co N O6
CCI CCS



CM 2

CRN 67-66-3
CMF C H Cl3

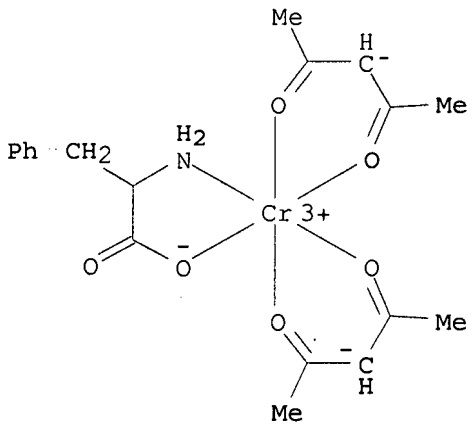


L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1976:503126 CAPLUS
DOCUMENT NUMBER: 85:103126
TITLE: Cotton effect-configuration relations in mixed-ligand complexes. 2. The series chromium(β-diketonate)n((S)-α-amino acidate)3-n
AUTHOR(S): Minor, Stephen S.; Witte, Gisela; Everett, Grover W., Jr.
CORPORATE SOURCE: Dep. Chem., Univ. Kansas, Lawrence, KS, USA
SOURCE: Inorganic Chemistry (1976), 15(9), 2052-5
CODEN: INOCAJ; ISSN: 0020-1669
DOCUMENT TYPE: Journal
LANGUAGE: English

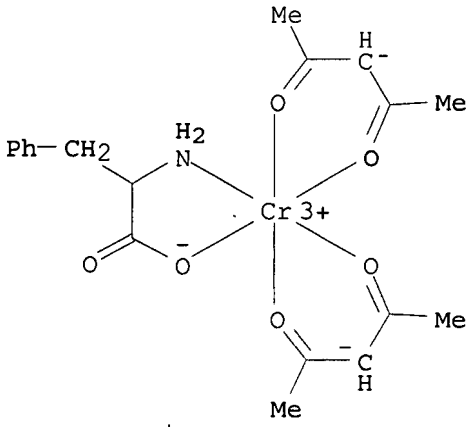
AB Mixed-ligand complexes of the type Cr(acac)2(L), where Hacac is 2,4-pentanedione and HL is (S)-alanine, (S)-valine, or (S)-phenylalanine, were prepared by photolysis of Cr(acac)3 in the presence of amino acid and base. In each case the 2 diastereomers of Cr(acac)2(L) can be separated by chromatog. on silica gel. Absolute configurations of these diastereomers are assigned from comparison of their CD spectra with those of the resolved parent Cr(acac)3 and from comparison of their chromatog. behavior with that of the corresponding Co(acac)2(L) diastereomers reported previously. Two diastereomers of CrL3 (HL = (S)-alanine) were isolated, and the absolute configuration of one of these is assigned from comparison of its x-ray powder pattern with those of the 4 diastereomers of CoL3.

IT 59532-84-2 59573-77-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(chromatog. separation of)

RN 59532-84-2 CAPLUS
CN Chromium, bis(2,4-pentanedionato-O,O')(L-phenylalaninato-N,O)-, (OC-6-31-Λ)- (9CI) (CA INDEX NAME)

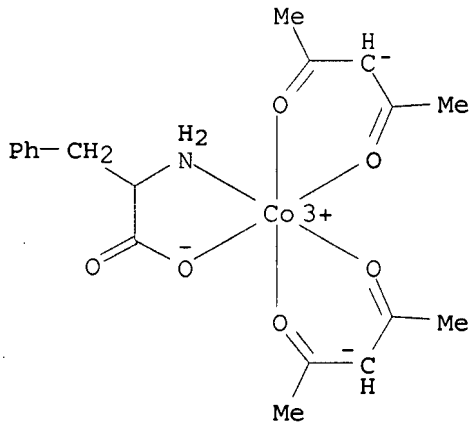


RN 59573-77-2 CAPLUS
CN Chromium, bis(2,4-pentanedionato-O,O')(L-phenylalaninato-N,O)-, (OC-6-31-Δ)- (9CI) (CA INDEX NAME)

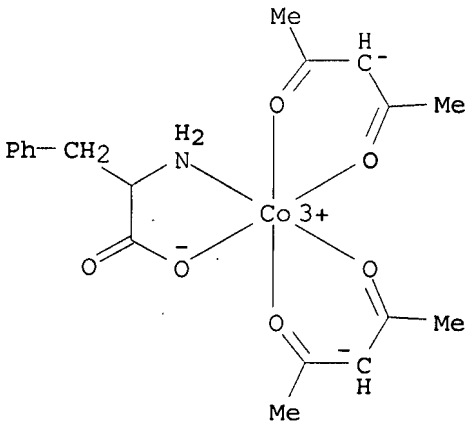


L4 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1972:93919 CAPLUS
DOCUMENT NUMBER: 76:93919
TITLE: Coordination complexes of amino acids. Separation and spectroscopic properties of diastereoisomers of (amino acidato)bis(acetylacetonato)cobalt(III) complexes
AUTHOR(S): Laurie, S. H.
CORPORATE SOURCE: Sch. Chem., City of Leicester Polytech., Leicester, UK
SOURCE: Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1972-1999) (1972), (4), 573-6
CODEN: JCDTBI; ISSN: 0300-9246
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The ORD, CD, and NMR spectra of the diastereoisomers of (L-phenylalaninato)- and (L-valinato)bis(acetylacetonato)cobalt(III), separated by fractional crystallization and column chromatog. on D-lactose, were used to determination their configurations. The isomers of the L-alanine analog could not be separated
IT 36309-82-7P 36309-83-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 36309-82-7 CAPLUS
CN Cobalt, bis(2,4-pentanedionato-O,O')(L-phenylalaninato-N,O)-, (OC-6-31-Λ)- (9CI) (CA INDEX NAME)



RN 36309-83-8 CAPLUS
CN Cobalt, bis(2,4-pentanedionato-O,O')(L-phenylalaninato-N,O)-, (OC-6-31-Δ)- (9CI) (CA INDEX NAME)

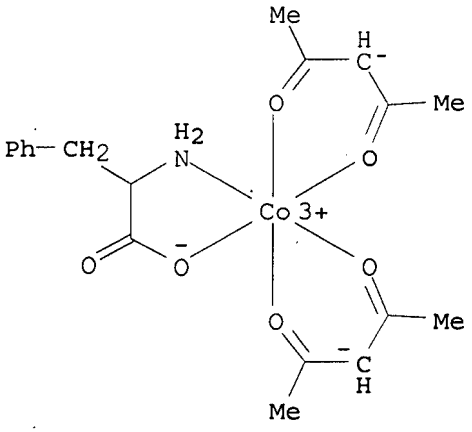


L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1968:87525 CAPLUS
DOCUMENT NUMBER: 68:87525
ORIGINAL REFERENCE NO.: 68:16907a,16910a
TITLE: Coordination complexes of amino acids. Preparation and properties of some amino-acidatobis(acetylacetonato)cobalt(III) and bis(amino-acidato)(acetylacetonato)cobalt(III) complexes
AUTHOR(S): Laurie, Stuart H.
CORPORATE SOURCE: Div. Protein Chem., C.S.I.R.O., Parkville, Australia
SOURCE: Australian Journal of Chemistry (1968), 21(3), 679-85
CODEN: AJCHAS; ISSN: 0004-9425
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Complexes of the type [Co(acac)2(aa)] (acac = acetylacetonato and aa = amino acid) have been synthesized, in which the amino acid is DL- and L-phenylalanine, L-valine, L-leucine, L-proline, DL-, L-, and D-alanine,

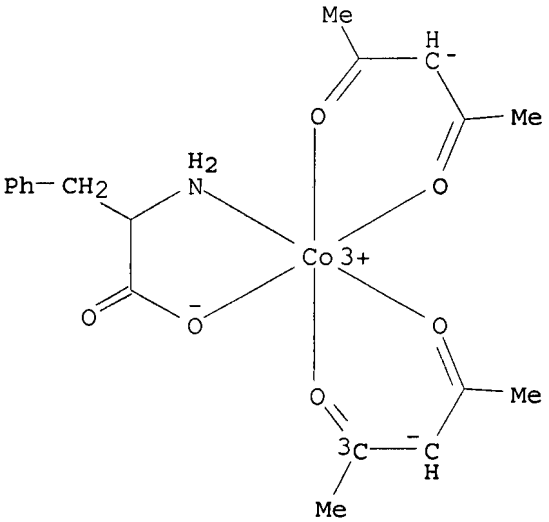
and glycine. The complexes were characterized by means of analyses, mol. wts., and their ir, visible, and uv absorption spectra. During the syntheses several of the bis-(amino-acidato)complexes, [Co(acac)(aa)2], were also. formed; the L-phenylalanine and glycine complexes were isolated and characterized. The complexes prepared from the optically active amino acids exhibited Cotton effects in the region of the visible absorption band (1A1g → 1T1g). These effects have been attributed to induced asymmetry rather than stereoselectivity. Amino acids of the same configuration gave rise to Cotton effects of the same sign, i.e. (-)590-[Co(acac)2(L-aa)], (-)590-[Co(acac)(L-aa)2], and (+)590-[Co(acac)2(D-aa)].

IT 17815-11-1P 17857-11-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 17815-11-1 CAPLUS
CN Cobalt, bis(2,4-pentanedionato)(L-phenylalaninato)- (8CI) (CA INDEX NAME)



RN 17857-11-3 CAPLUS
CN Cobalt, bis(2,4-pentanedionato)(DL-phenylalaninato)- (8CI) (CA INDEX NAME)



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L2             0 S L1
L3             9 S L1 FULL

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L4             7 S L3

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L1                STR
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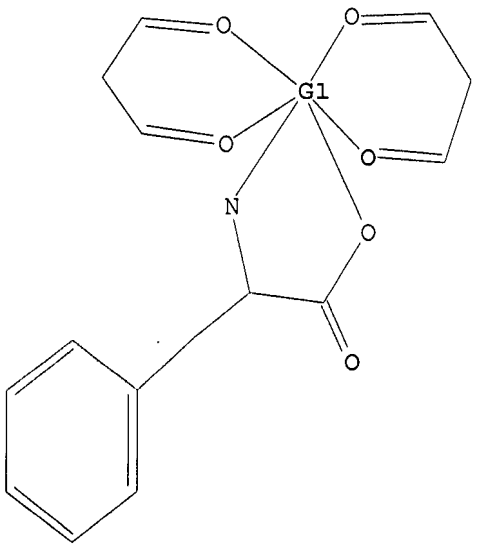

G1 Co,Cr,Cu,Fe,Mn,Mo,Ni,Zn

Structure attributes must be viewed using STN Express query preparation.

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